

Amendments to the Specification (with reference to the specification paragraphs that were added with the Amendment filed October 9, 2007)

Please delete the paragraph on page 24, lines 16-17, as follows:

~~Fig. 28B is an exemplary cross-sectional diagram shown in a direction parallel to gas flow.~~

Please replace the paragraph beginning at page 27, line 6 with the following amended paragraph:

Forming the wall face-portions 5 of the walls 3 so as to be deformed in an undulated shape in both the cell passage direction and the cell passage cross-section direction (see, e.g. Figures 1A, 1B, and 28A and 28B) as with the undulated-wall honeycomb structure 1 not only increases the surface area of the walls 2 so that the interaction between the exhaust gas and the walls 3 can be increased, but the flow of the exhaust gas through the cell passages 2 can be made into a non-stationary flow by the cross-sectional form of the cell passages 2 changing while the cross-section area thereof is almost constant, thereby increasing interactions between the exhaust gas and the walls 3 even further. Thus, the catalyst properties can be improved. Figure 28A is an exemplary cross-sectional diagram in a direction parallel to gas flow, wherein a cross-section area continuously changes in the gas-flow direction with the undulated-wall honeycomb structure, and wherein the recessions and protrusions are

synchronized (i.e. in-phase). Figure 28B is an exemplary cross-sectional diagram in a direction parallel to gas flow wherein a cross-section area continuously changes in the gas flow direction with the undulated wall honeycomb structure, and wherein the recessions and protrusions are not synchronized (i.e. out of phase).